

## SmartOnline 200-240V 6kVA 4.2kW On-Line Double-Conversion UPS, Extended Run, SNMP, Webcard, 6U Rack/Tower, DB9 Serial, Hardwire

MODEL NUMBER: **SU6000RT3UHVXL**



### Description

Tripp Lite Smart Online UPS systems offer high performance power protection ideal for critical server and network equipment in datacenters, computer rooms and network closets. Online, double-conversion Uninterruptible Power Supply (UPS) maintains perfectly regulated output power by continuously converting raw AC input to DC, then re-converting output back to AC. Fully regulated sine wave AC output with +/-2% voltage regulation powers network equipment continuously, even during severe brownouts and overvoltages, all without depleting UPS battery reserves. Maintains battery-derived AC output during power failures with zero transfer time. Extended runtime options available. Interactive LCD interface reports UPS operating mode, detailed UPS and site-power data, plus enables a variety of UPS setup and configuration options. Highly efficient operation in optional economy mode saves BTU heat output and energy costs. Network management interfaces support communications via RS-232, contact-closure and optional SNMPWEBCARD network interface. Built-in DB9 port offers both enhanced RS-232 data and basic contact closure monitoring ability. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. LED display reports UPS operating mode, line power availability, battery mode operation, inverter operation, ECO mode status and output power availability. Audible alarm with push-button momentary alarm-cancel and silent-mode LCD configuration options. Programmable self-test. Fault-tolerant auto-bypass mode. Field-replaceable, hot-swappable internal batteries and external battery packs.

### Features

- True on-line, double conversion UPS provides pure, sine wave AC output at all times
- World-wide compatibility with Euro 50Hz and High Voltage North American 60Hz power
- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time
- Removes harmonic distortion, electrical impulses, frequency variations and other hard to solve power problems
- 6000VA/4200 watt power capacity with hardwire input/output connections
- Accepts input voltages between 156 and 276, regulating output within 2% of selectable 200/208/220/230/240v AC output
- 30 minutes runtime at half load (2100W) / 12 minutes at full load (4200W) with included BP240V10RT3U external battery pack
- Expandable runtime with multiple external battery packs

### Highlights

- 6000VA / 6kVA / 4200W on-line double-conversion UPS
- 200/208/220/230/240V 50/60Hz output, Economy mode option
- 6U Rack/Tower compatible; Hot-swappable battery modules
- RS232 & EPO ports; support for SNMP/WEB card options
- Front panel LEDs with detailed LCD monitoring and control screen
- Ships with high capacity BP240V10RT3U battery pack
- Hardwire input (3 wire); Hardwire output

### Package Includes

- SU6000RT3UPM 3U UPS Power Module
- BP240V10RT3U 3U external battery pack
- PowerAlert UPS management software and complete cabling
- Mounting hardware to support each 3U module in 4 post rack enclosures
- 2-9USTAND tower stand set
- Warranty information
- Instruction manual



- Innovative design makes unit adaptable for rackmount, tower, or stacking applications
- Power module and battery pack require only 3 rack spaces each (6U total rack space usage)
- DB9 serial port for network interface; SNMP compatible
- Slot for optional SNMP/web card (part# SNMPWEBCARD)
- PowerAlert unattended shutdown software and 6 ft. network cable included
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Diagnostic LEDs
- Mounting hardware included with each 3U module for 4 post rackmount installation, 2 post telecom rack compatible with separate purchase 2POSTRMKITHD (2 required)
- Includes RJ11 EPO (emergency power off) port and interconnection cable
- \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

## Specifications

| General Info                                  |                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RoHS                                          | y                                                                                                                                                                                                                                                                                                                      |
| OUTPUT                                        |                                                                                                                                                                                                                                                                                                                        |
| Output Capacity Details                       | Supports up to 102% load continuously in double conversion mode, 102 to 125% for 1 minute, 126% to 150% for 30 seconds; Loads over 150% trigger immediate bypass mode operation to support loads directly from mains power; Double conversion mode is automatically restored as load levels are reduced to 90% or less |
| Output Volt Amp Capacity (VA)                 | 6000                                                                                                                                                                                                                                                                                                                   |
| Output kVA Capacity (kVA)                     | 6                                                                                                                                                                                                                                                                                                                      |
| Output Watt Capacity (Watts)                  | 4200                                                                                                                                                                                                                                                                                                                   |
| Output kW Capacity (kW)                       | 4.2                                                                                                                                                                                                                                                                                                                    |
| Power Factor                                  | 0.7                                                                                                                                                                                                                                                                                                                    |
| Crest Factor                                  | 3:1                                                                                                                                                                                                                                                                                                                    |
| Nominal Output Voltage(s) Supported           | 200V; 208V; 220V; 230V; 240V                                                                                                                                                                                                                                                                                           |
| Nominal Voltage Details                       | Voltage selection via front panel LCD interface                                                                                                                                                                                                                                                                        |
| Frequency Compatibility                       | 50 / 60 Hz                                                                                                                                                                                                                                                                                                             |
| Frequency Compatibility Details               | Output frequency matches input nominal on startup                                                                                                                                                                                                                                                                      |
| Output Voltage Regulation (Line Mode)         | +/- 2%                                                                                                                                                                                                                                                                                                                 |
| Output Voltage Regulation (Economy Line Mode) | +/- 10%                                                                                                                                                                                                                                                                                                                |
| Output Voltage Regulation (Battery Mode)      | +/- 2%                                                                                                                                                                                                                                                                                                                 |
| Output Receptacles                            | Hardwire                                                                                                                                                                                                                                                                                                               |
| Output Receptacle Backplate Options           | Optional SUPDM11 backplate adds 2 L6-30R outlets and L6-30P input cord                                                                                                                                                                                                                                                 |



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|                                              |                                                                                                                                                                                                         |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Circuit Breakers                      | 40A double-pole                                                                                                                                                                                         |
| Output AC Waveform (AC Mode)                 | Pure Sine wave                                                                                                                                                                                          |
| Output AC Waveform (Battery Mode)            | Pure Sine wave                                                                                                                                                                                          |
| <b>INPUT</b>                                 |                                                                                                                                                                                                         |
| Rated input current (Maximum Load)           | 30A                                                                                                                                                                                                     |
| Nominal Input Voltage(s) Supported           | 200V AC; 208V AC; 220V AC; 230V AC; 240V AC                                                                                                                                                             |
| UPS Input Connection Type                    | Hardwire                                                                                                                                                                                                |
| UPS Input Connection Description             | Supports North American 208/240V input (L1,L2,G) and International 230/220/240V (L,N,PE) input wiring; Optional SUPDM11 backplate adds 2 L6-30R outlets and L6-30P input cord                           |
| Input Circuit Breakers                       | 40A double-pole                                                                                                                                                                                         |
| Recommended Electrical Service               | 30A 208/220/230/240V                                                                                                                                                                                    |
| Input Phase                                  | Single-Phase                                                                                                                                                                                            |
| <b>BATTERY</b>                               |                                                                                                                                                                                                         |
| Full Load Runtime (min.)                     | 12 min. (4200w)                                                                                                                                                                                         |
| Half Load Runtime (min.)                     | 30 min. (2100w)                                                                                                                                                                                         |
| Expandable Battery Runtime                   | Includes one expandable <a href="#">BP240V10RT3U</a> external battery pack; built-in daisychain throughput connected supports the connection of multiple additional BP240V10RT3U external battery packs |
| External Battery Pack Compatibility          | <a href="#">BP240V10RT3U</a>                                                                                                                                                                            |
| DC System Voltage (VDC)                      | 240                                                                                                                                                                                                     |
| Battery Recharge Rate (Included Batteries)   | Less than 6 hours from 10% to 80% (typical, full load discharge)                                                                                                                                        |
| Battery Replacement Description              | Hot-swappable, user replaceable batteries                                                                                                                                                               |
| <b>VOLTAGE REGULATION</b>                    |                                                                                                                                                                                                         |
| Voltage Regulation Description               | Online, double-conversion power conditioning                                                                                                                                                            |
| Overvoltage Correction                       | 2% output voltage regulation during overvoltages to 276                                                                                                                                                 |
| Undervoltage Correction                      | 2% output voltage regulation during undervoltages to 156                                                                                                                                                |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |                                                                                                                                                                                                         |
| Front Panel LCD Display                      | Selectable LCD display with scroll and selection buttons enables UPS control and detailed monitoring options; LED/LCD panel rotates for viewing in rack/tower formats (see manual)                      |
| Switches                                     | 2 Switches control off/on power status and alarm-cancel/self-test operation; 2 additional switches support set and execute scrolling LCD functions                                                      |
| Alarm Cancel Operation                       | Alarm cancel switch                                                                                                                                                                                     |
| Audible Alarm                                | Unique audible alarms for all major UPS, environmental and power conditions (see manual)                                                                                                                |
| LED Indicators                               | 6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD screen offers additional information and control options                                    |



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| SURGE / NOISE SUPPRESSION                                     |                                                                                                                                                         |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| UPS AC Suppression Response Time                              | Instantaneous                                                                                                                                           |
| EMI / RFI AC Noise Suppression                                | Yes                                                                                                                                                     |
| PHYSICAL                                                      |                                                                                                                                                         |
| Included Mounting Accessory Description                       | 2 sets of adjustable 4 post rack rails included (for UPS and battery pack components); 2-9USTAND tower kit included (supports up to 9U in tower format) |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount (2POSTRMKITHD)                                                                                                                         |
| Optional Mounting Accessory Notes                             | 2 sets of <a href="#">2POSTRMKITHD</a> required for 2 post rackmount installation of separate power module and battery pack                             |
| Primary Form Factor                                           | Rackmount                                                                                                                                               |
| UPS Power Module Dimensions (hwd, in.)                        | 5.2 x 17.5 x 26                                                                                                                                         |
| UPS Power Module Dimensions (hwd, cm)                         | 13.3 x 44.4 x 66                                                                                                                                        |
| Installed Whole System Maximum Rack Depth (in.)               | 26                                                                                                                                                      |
| Installed Whole System Maximum Rack Depth (cm)                | 66                                                                                                                                                      |
| Rack Height (U Spaces)                                        | 6                                                                                                                                                       |
| UPS Power Module Weight (lbs.)                                | 43.8                                                                                                                                                    |
| UPS Power Module Weight (kg)                                  | 19.9                                                                                                                                                    |
| Included Battery Pack Dimensions (hwd / in.)                  | 5.2 x 17.5 x 25                                                                                                                                         |
| Included Battery Pack Dimensions (hwd / cm)                   | 13.3 x 44.4 x 63.5                                                                                                                                      |
| Included Battery Pack Weight (lbs.)                           | 136.5                                                                                                                                                   |
| Included Battery Pack Weight (kg)                             | 62                                                                                                                                                      |
| UPS Shipping Dimensions (hwd / in.)                           | 27.5 x 40 x 48                                                                                                                                          |
| UPS Shipping Dimensions (hwd / cm)                            | 69.9 x 101.6 x 121.9                                                                                                                                    |
| Shipping Weight (lbs.)                                        | 323                                                                                                                                                     |
| Shipping Weight (kg)                                          | 146.6                                                                                                                                                   |
| Cooling Method                                                | Fan                                                                                                                                                     |
| UPS Housing Material                                          | Steel                                                                                                                                                   |
| ENVIRONMENTAL                                                 |                                                                                                                                                         |
| Operating Temperature Range                                   | +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius.                                                                                              |
| Storage Temperature Range                                     | +5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius.                                                                                             |



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|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Relative Humidity                                           | 0 to 95%, non-condensing                                                                                                                                                                                                                       |
| AC Mode BTU / Hr. (Full Load)                               | 1412.3                                                                                                                                                                                                                                         |
| AC Economy Mode BTU / Hr. (Full Load)                       | 911.5                                                                                                                                                                                                                                          |
| AC Mode Efficiency Rating (100% Load)                       | 91%                                                                                                                                                                                                                                            |
| AC Economy Mode Efficiency Rating (100% Load)               | 94%                                                                                                                                                                                                                                            |
| Operating Elevation (ft.)                                   | 0-3000m (0 to 10,000 ft.)                                                                                                                                                                                                                      |
| Audible Noise                                               | 60 dBA at front side 1 meter                                                                                                                                                                                                                   |
| <b>COMMUNICATIONS</b>                                       |                                                                                                                                                                                                                                                |
| Communications Interface                                    | DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface                                                                                                                                                            |
| Network Monitoring Port Description                         | RS232 and contact closure communications are located on two separate DB9 ports                                                                                                                                                                 |
| PowerAlert Software                                         | Included                                                                                                                                                                                                                                       |
| Communications Cable                                        | DB9 cable included                                                                                                                                                                                                                             |
| <b>LINE / BATTERY TRANSFER</b>                              |                                                                                                                                                                                                                                                |
| Transfer Time                                               | No transfer time (0 ms.) in online, double-conversion mode                                                                                                                                                                                     |
| Transfer Time (Economy Mode)                                | Less than 1ms typical power failure response in optional economy mode                                                                                                                                                                          |
| Low Voltage Transfer to Battery Power (Setpoint)            | 156                                                                                                                                                                                                                                            |
| High Voltage Transfer to Battery Power (Setpoint)           | 276                                                                                                                                                                                                                                            |
| <b>SPECIAL FEATURES</b>                                     |                                                                                                                                                                                                                                                |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported                                                                                                                                                                                                                 |
| High Availability UPS Features                              | Automatic inverter bypass; Hot swappable batteries                                                                                                                                                                                             |
| Green Energy-Saving Features                                | High efficiency economy mode operation; Schedulable daily hours of economy mode operation                                                                                                                                                      |
| <b>CERTIFICATIONS</b>                                       |                                                                                                                                                                                                                                                |
| UPS Certifications                                          | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); CE; Tested to GOST (Russia); Tested to SASO (Saudi Arabia); Tested to IRAM (Argentina); Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances) |
| <b>WARRANTY</b>                                             |                                                                                                                                                                                                                                                |
| Product Warranty Period (Worldwide)                         | 2-year limited warranty                                                                                                                                                                                                                        |



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